HIGH NORTH ID: 00421426 Date: 2023-12-28 Certificate: 1703805318



High North Inc. 241 Hanlan Rd, Unit 7 Woodbridge, ON, L4L 3R7 1-416-864-6119 LIC-P4PNJMAC20-2022

Client:	Ostara Medical Inc 5331 ave Pierre Dansereau.	Product: Lot:	Dried flowers DTX-001
	Valleyfield , QC, J0S0M1	Matrix:	Flower
Name:	Philippe Ringuette	Sub-matrix:	Dried Flower
	5149927445	Sampled:	2023-12-19
	info@ostaramedical.com	Received:	2023-12-20

Certificate of Analysis

Cannabinoid Analysis	LOD (%)	LOQ (%)	wt%	mg/g
Total THC [(THCA x 0.877) + D9-THC] Total CBD [(CBDA x 0.877) + CBD]			29.6994 0.0886	296.9938 0.8859
THCA-A	0.03	0.06	33.5219	335.2187
CBGA	0.03	0.06	1.3288	13.2875
CBCA	0.03	0.06	0.4087	4.0867
D9-THC	0.03	0.06	0.3007	3.0070
THCVA	0.03	0.06	0.2723	2.7225
CBG	0.03	0.06	0.1364	1.3642
CBDA	0.03	0.06	0.1010	1.0101
CBC	0.03	0.06	ND	ND
D8-THC	0.03	0.06	ND	ND
CBCVA	0.03	0.06	ND	ND
CBN	0.03	0.06	ND	ND
CBCV	0.03	0.06	ND	ND
THCV	0.03	0.06	ND	ND
CBD	0.03	0.06	ND	ND
CBDV	0.03	0.06	ND	ND
CBDVA	0.03	0.06	ND	ND
Total of all quantified cannabinoid	36.0698	360.6967		
Moisture Analysis		Result		
Loss on Drying (EP 2.2.32 Vacuum Oven)				5.5689%

Identification C (by HPLC) In-House Method

The retention time of the THCA peak in the chromatogram of the Assay preparation corresponds to the retention time of THCA in the standard (Conforms).





High North ID: 00421426 Certificate: 1703805319



Comments

Testing has been conducted as per TGO specifications.

Abbreviations: wt% = percentage of weight, CFU = colony forming units, ppm = Parts per million, ppb = Parts per billion, ND = None Detected, BLQ = Below Limit of Quantification, LOQ = Limit of Quantification, LOD = Limit of Detection, RL = Reporting Limit, * = Mixture of Isomers





Cannabinoid Analysis

LAB-MTD-020: Determination of 16 Cannabinoids in Cannabis Flowers, Extracts, Topicals, Tablets and Isolates by HPLC

LAB-MTD-039: Determination of 11 Cannabinoids in Cannabis Edibles by HPLC

LAB-MTD-051: Assay of Cannabinoids in Cannabis Flower as per DAB by HPLC

LAB-MTD-052: Identification of CBD and THCA as per DAB by Thin-Layer Chromatography

Terpene Analysis

LAB-MTD-044: Determination of Terpene Content in Cannabis Dried Flower, Fresh Flower and Extracts by GC-MS

Pesticide Analysis

LAB-MTD-010: Determination of Health Canada Pesticide Residues and Toxins in Dried Cannabis Flower by LC-MS/MS and GC-MS/MS

LAB-MTD-040: Determination of EP 2.8.13 Pesticide Residues in Cannabis Extracts by GC-MS/MS LAB-MTD-041: Determination of EP 2.8.13/USP 561 Pesticide Residues in Cannabis Flower by GC-MS/MS and LC-MS/MS

LAB-MTD-046: Determination of Health Canada Pesticides and Toxins in Cannabis Extracts by LC-MS/MS

LAB-MTD-048: Determination of Health Canada Pesticide Residues and Toxins in Fresh Cannabis Flower by LC-MS/MS and GC-MS/MS

LAB-MTD-055: Determination of Israel Pesticide Residues in Dried/Fresh Cannabis by LC-MS/MS and GC-MS/MS

Mycotoxin Analysis

LAB-MTD-010: Determination of Health Canada Pesticide Residues and Toxins in Dried Cannabis Flower by LC-MS/MS and GC-MS/MS

LAB-MTD-029: Determination of Toxins in Tablet Samples by LC-MS/MS

LAB-MTD-037: Determination of Mycotoxins in Topical/Cream Samples by LC-MS/MS

LAB-MTD-046: Determination of Health Canada Pesticides and Toxins in Cannabis Extracts by LC-MS/MS

LAB-MTD-048: Determination of Health Canada Pesticide Residues and Toxins in Fresh Cannabis Flower by LC-MS/MS and GC-MS/MS

Flavonoid Analysis

LAB-MTD-045: Determination of Flavonoids in Cannabis Dried Flower, Fresh Flower, and Extracts by LC-MS/MS

Peroxide Value, p-Anisidine and Acidity (FFA) Analysis

LAB-MTD-049: Determination of Peroxide Value, p-Anisidine, and Acidity (FFA)

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Information is accurate unless otherwise stated. The results of this report are reflective only to material and product analyzed as received. This report shall not be reproduced, without written approval from High North Laboratories. Test Results are confidential unless explicitly waived otherwise.

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*KØSUJasc*á Kintesh Sutaria QA Specialist





Microbial Analysis

MIC-MTD-001: Microbial Analysis of Cannabis Flower and Oil by qPCR MIC-MTD-006: Determination of Viruses in Cannabis via qPCR and ELISA MIC-MTD-007: Microbial Analysis of Cannabis by Culture Techniques MIC-MTD-009: Cannabis Gender Determination by qPCR MIC-MTD-010: Identification A and Identification B of Cannabis by DAB Monograph MIC-MTD-011: Analysis of Shigella Species in Cannabis and Cannabis Infused Products MIC-MTD-008: Analysis of Listeria Monocytogenes in Cannabis and Cannabis Infused Products MIC-MTD-012: Microbial Analysis of Cannabis and Cannabis Infused Products

Moisture Analysis

LAB-MTD-017: Determination of Moisture Content in Cannabis Flower LAB-MTD-031: Water Activity Meter Setup and Operation LAB-MTD-053: Determination of Moisture Content by Loss on Drying Technique using Vacuum Oven LAB-MTD-056: Determination of Moisture Content by Karl Fischer Titration

Sample Appearance and Foreign Matter

LAB-MTD-022: Sample Appearance and Detection of Foreign Matter Content in Cannabis Samples

<u>Total Ash Analysis</u>

LAB-MTD-043: Total Ash by Muffle Furnace in Cannabis Products

Residual Solvents Analysis

LAB-MTD-036: Determination of Residual Solvents in Cannabis Oil by GC-MS LAB-MTD-028: Determination of Residual Solvents in Tablet Samples by GC-MS LAB-MTD-034: Determination of Propane and Butane in Cannabis Oil by GC-MS LAB-MTD-038: Determination of Toluene in Cannabis Isolate by GC-MS LAB-MTD-054: Determination of Acetic Acid in Flavour, Cannabis Vape Mix Oil and Cannabis Infused Flower by GC-MS

Heavy Metal Analysis

LAB-MTD-027: Determination of Heavy Metals in Cannabis Samples (Cream/Topicals, Tablets and Edibles) by ICP-MS LAB-MTD-050: Multi-Element Analysis of Cannabis Dried Flower, Fresh Flower, Extracts, and Rolling Papers by ICP-MS LAB-MTD-058: Determination of Palladium (Pd) in Cannabis Dried Flower, Fresh Flower and Extracts by ICP-MS

<u>pH Analysis</u>

MIC-MTD-013: Determination of pH using pH Meter

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CERTIFICATE OF ANALYSIS

Client information	COA information		
Ostara Medical	COA number	240117_91259_PAR25512	
5331 Avenue Pierre Dansereau	COA Date	17-Jan-2024	
Salaberry de Valleyfield, Canada, J6S 6A2	Analysis Request ID	PAR25512	

Sample information

Sample Name	DTX-001	Sample Receiving Date	11-Jan-2024
Sample ID	DTX-001	Receiving Temperature	21°C
Laboratory ID	PAT75950		

Results information

Analysis Date	Test	Method Ref.	Results	Units
13-Jan-2024	Moisture	PAT-AM-023(USP <731>)	12.37	%

Authorized by: Laboratory Manager

Details of testing

1. Results only apply to the items tested and to the sample(s) as received.

2. This report may not be distributed or reproduced except in full.



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Signature:

This COA can be verified by scanning the QR code



Sample information

Sample Name	DTX-001	Sample Receiving Date	11-Jan-2024
Sample ID	DTX-001	Receiving Temperature	21°C
Laboratory ID	PAT75950	Analysis Date	15-Jan-2024
Method Ref.	PAT-AM-022		

Terpenes Profile

Compounds	Results (%w/w)	Results (mg/g)	LOQ(%)
beta-Myrcene	0.888	8.880	0.001
D-Limonene	0.770	7.700	0.001
beta-Caryophyllene	0.291	2.910	0.001
Selina-3,7(11)-diene	0.247	2.470	0.001
beta-Pinene	0.130	1.300	0.001
alpha-Humulene	0.114	1.140	0.001
(-)-alpha-Bisabolol	0.074	0.740	0.001
alpha-Pinene	0.066	0.660	0.001
1R-endo-Fenchyl-Alcohol	0.060	0.600	0.001
Farnesene 1	0.056	0.560	0.005
beta-Selinene	0.051	0.510	0.001
alpha-Selinene	0.045	0.450	0.001
alpha-Terpineol	0.044	0.440	0.001
trans-Nerolidol	0.042	0.420	0.001
Camphene	0.019	0.190	0.001
Farnesene 4	0.015	0.150	0.005
Farnesol 2	0.014	0.140	0.001
trans-beta-Farnesene	0.012	0.120	0.001
Farnesene 3	0.010	0.100	0.005
Terpinolene	0.009	0.090	0.001
Squalene	0.008	0.080	0.001
cis-beta-Ocimene	0.007	0.070	0.005
Farnesene 2	0.007	0.070	0.005
Caryophyllene Oxide	0.006	0.060	0.001
Geraniol	0.006	0.060	0.001
Linalool	0.006	0.060	0.001
Terpinen-4-ol/D- Isomenthone	0.006	0.060	0.001
Farnesene 5	<0.005	<0.050	0.005
Valencene	0.005	0.050	0.001
Citronellol	0.004	0.040	0.001
Cedrol	0.003	0.030	0.001
Fenchone	0.003	0.030	0.001
Borneol	0.002	0.020	0.001
Camphor	0.002	0.020	0.001
Nootkatone	0.002	0.020	0.001
(-)-Guaiol	<0.001	<0.010	0.001
(-)-Isopulegol	<0.001	<0.010	0.001
1,8-Cineole (Eucalyptol)	<0.001	<0.010	0.001
alpha-Cedrene	<0.001	<0.010	0.001
alpha-Phellandrene	<0.001	<0.010	0.001



Compounds	Results (%w/w)	Results (mg/g)	LOQ(%)
alpha-Terpinene	<0.001	<0.010	0.001
alpha-Thujone	<0.001	<0.010	0.001
Carvacrol	<0.001	<0.010	0.001
Carvone	<0.001	<0.010	0.001
cis-Citral	<0.001	<0.010	0.001
cis-Nerolidol	<0.001	<0.010	0.001
delta-3-Carene	<0.001	<0.010	0.001
Farnesol 1	<0.001	<0.010	0.001
gamma-Terpinene	0.001	0.010	0.001
Geranyl Acetate	<0.001	<0.010	0.001
Isoborneol	<0.001	<0.010	0.001
Isobornyl Acetate	<0.001	<0.010	0.001
L-Menthone	<0.001	<0.010	0.001
Menthol	<0.001	<0.010	0.001
m-Isopropyltoluene	<0.001	<0.010	0.001
Nerol	<0.001	<0.010	0.001
Octyl Acetate	<0.001	<0.010	0.001
o-Isopropyltoluene	<0.001	<0.010	0.001
Phytane	<0.001	<0.010	0.001
Piperitone	0.001	0.010	0.001
p-Isopropyltoluene	<0.001	<0.010	0.001
Pulegone	<0.001	<0.010	0.001
Sabinene	<0.001	<0.010	0.001
Sabinene Hydrate	0.001	0.010	0.001
Safranal	<0.001	<0.010	0.001
Thymol	<0.001	<0.010	0.001
trans-beta-Ocimene	<0.001	<0.010	0.001
trans-Citral	0.001	0.010	0.001
Verbenone	<0.001	<0.010	0.001
Total Terpenes	3.028	30.280	

Authorized by: Laboratory Manager

Signature:

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Details of testing

- 1. LOQ- Limit of quantification
- 2. % w/w: percent (weight of analyte/ weight of product)
- 3. Results only apply to the items tested and to the sample(s) as received.
- 4. This report may not be distributed or reproduced except in full



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HIGH NORTH ID: 00421425 Date: 2024-01-08 Certificate: 1704754871



High North Inc. 241 Hanlan Rd, Unit 7 Woodbridge, ON, L4L 3R7 1-416-864-6119 LIC-P4PNJMAC20-2022

Client:	Ostara Medical Inc 5331 ave Pierre Dansereau,	Product: Lot:	Dried Cannabis DTX-001
	Valleyfield , QC, J0S0M1	Matrix:	Flower
Name:	Philippe Ringuette	Sub-matrix:	Dried Flower
	5149927445	Sampled:	2023-12-19
	info@ostaramedical.com	Received:	2023-12-20

Certificate of Analysis

	Result			
n Matter None Detected				
			Result	
			8.5298%)
LOD (ppb) LOQ (ppb)	RL (ppb)	Result (ppb)	Status
0.5000	2	2	ND	PASS
0.5000	2		ND	
0.3000	2		ND	
0.6000	2		ND	
		4	0	PASS
5.6000	20	20	ND	PASS
	LOD (CFU/g)	RL (CFU/g)	Result (CFU/g)	Status
			Absent in 10g Absent in 1g	PASS PASS
D (mg/kg)	LOQ (mg/kg)	RL (m <u>g</u> /kg)	Result (mg/kg)	Status
0.034	0.2	3.0	ND	PASS
0.016	0.06	0.5	ND	PASS
0.014	0.49	5.0	ND	PASS
0.009	0.06	0.5	ND	PASS
	LOD (ppb 0.5000 0.5000 0.3000 0.6000 5.6000 5.6000 0.034 0.034 0.016 0.014 0.009	Result None Detecte LOD (ppb) LOQ (ppb) 0.5000 2 0.5000 2 0.3000 2 0.6000 2 5.6000 20 LOD (CFU/g) 0.034 0.2 0.016 0.06 0.014 0.49 0.009 0.06	LOD (ppb) LOQ (ppb) RL (ppb) 0.5000 2 2 0.5000 2 2 0.5000 2 2 0.3000 2 4 5.6000 20 20 LOD (CFU/g) RL (CFU/g) D (mg/kg) LOQ (mg/kg) RL (mg/kg) 0.034 0.2 3.0 0.016 0.06 0.5 0.014 0.49 5.0 0.009 0.06 0.5	Result Result None Detected Result 8.5298% 8.5298% LOD (ppb) LOQ (ppb) RL (ppb) Result (ppb) 0.5000 2 2 ND 0.5000 2 2 ND 0.5000 2 ND ND 0.3000 2 ND ND 0.6000 20 20 ND LOD (CFU/g) RL (CFU/g) Result (CFU/g) Absent in 10g Absent in 10g Absent in 10g Absent in 10g 0.034 0.2 3.0 ND 0.016 0.06 0.5 ND 0.014 0.49



Microbial Culture Test	Result
Total Aerobic Microbial Count	2.15 x 10^3 CFU/g
Total Yeast and Mould Count	1.7 x 10^3 CFU/g
Bile Tolerant Gram Negative Bacteria Count	<10 CFU/g
Microbial Culture Test	Result
S.aureus	Absent/g
Microbial Culture Test	Result
P. aeruginosa	Absent/g

Abbreviations: wt% = percentage of weight, CFU = colony forming units, ppm = Parts per million, ppb = Parts per billion, ND = None Detected, BLQ = Below Limit of Quantification, LOQ = Limit of Quantification, LOD = Limit of Detection, RL = Reporting Limit, * = Mixture of Isomers



High North ID: 00421425 Certificate: 1704754871



Pesticides Analysis	LOD (ppm)	LOQ (ppm)	RL (ppm)	Result (ppm)	Status
Acephate	0.0422	0.10	0.10	ND	PASS
Alachlor	0.0170	0.05	0.05	ND	PASS
Aldrin and Dieldrin (Sum of)	0.0238	0.05	0.05	ND	PASS
Azinphos-ethyl	0.0416	0.10	0.10	ND	PASS
Azinphos-methyl	0.1154	1.00	1.00	ND	PASS
Bromophos-ethyl	0.0241	0.05	0.05	ND	PASS
Bromophos-methyl	0.0195	0.05	0.05	ND	PASS
Brompropylate	0.0874	3.00	3.00	ND	PASS
Chlordane (Sum of cis-, trans- and oxychlordane)	0.0236	0.05	0.05	ND	PASS
Chlomenvinphos	0.0694	0.50	0.50	ND	PASS
Chlorpyriphos-ethyl	0.0396	0.20	0.20	ND	PASS
Chlorpyriphos-methyl	0.0281	0.10	0.10	ND	PASS
Chlorthal-dimethyl	0.0032	0.01	0.01	ND	PASS
Cyfluthrin (Sum of)	0.0300	0.10	0.10	ND	PASS
of)	0.0632	1.00	1.00	ND	PASS
DDT (Sum of o,p'-DDE, p,p'- DDE, o,p'-DDT, p,p'-DDT, o,p'- TDE and p.p'-TDE)	0.2493	1.00	1.00	ND	PASS
Deltamethrin	0.1299	0.50	0.50	ND	PASS
Diazinon	0.0836	0.50	0.50	ND	PASS
Dichlofluanid	0.0341	0.10	0.10	ND	PASS
Dichlorvos	0.0589	1.00	1.00	ND	PASS
Dicofol	0.1476	0.50	0.50	ND	PASS
Dimethoate and Omethoate	0.0416	0.10	0.10	ND	PASS
Dithiocarbamates (Expressed as CS2)	0.1133	2.00	2.00	ND	PASS
Endosulfan (Sum of isomers and endosulfan sulfate)	0.0836	3.00	3.00	ND	PASS
Endrin	0.0113	0.05	0.05	ND	PASS
Ethion	0.0474	2.00	2.00	ND	PASS
Etrimphos	0.0190	0.05	0.05	ND	PASS
Fenchlorophos (sum of fenchlorophos and fenchlorophos-oxon)	0.0498	0.10	0.10	ND	PASS
Fenitrothion	0.1398	0.50	0.50	ND	PASS
Fenpropathrin	0.0084	0.03	0.03	ND	PASS
Fensulfothion (Sum of fensulfothion, fensulfothion- oxon, fensulfothion-oxonsulfon and fensulfothion-sulfon)	0.0247	0.05	0.05	ND	PASS
Fenthion (Sum of fenthion, fenthion-oxon, fenthion-oxon- sulfon, fenthion-oxon-sulfoxid, fenthion-sulfon and fenthion- sulfoxid)	0.0246	0.05	0.05	ND	PASS

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High North ID: 00421425 Certificate: 1704754871



Pesticides Analysis	LOD (ppm)	LOQ (ppm)	RL (ppm)	Result (ppm)	Status
Fenvalerate	0.1202	1.50	1.50	ND	PASS
Flucytrinate	0.0245	0.05	0.05	ND	PASS
Fonophos	0.0205	0.05	0.05	ND	PASS
Heptachlor (Sum of heptachlor.	0.0230	0.05	0.05	ND	PASS
cis-heptachlorepoxide and					
trans-heptachlorepoxide)					
Hexachlorbenzene	0.0204	0.10	0.10	ND	PASS
Hexachlorocyclohexane (Sum of a-,b-, d- and e)	0.1396	0.30	0.30	ND	PASS
Lambda-Cyhalothrin	0.0860	1.00	1.00	ND	PASS
Lindan (gamma-	0.0574	0.60	0.60	ND	PASS
hexachlorocyclohexane)					
Malathion and Malaoxon (Sum	0.1445	1.00	1.00	ND	PASS
ot) Macarbam	0 01 22	0.05	0.05		DACC
Methoevinhee	0.0133	0.05	0.05		PASS
Methacriphos	0.0240	0.05	0.05	ND	PASS
Methamidophos	0.0203	0.05	0.05	ND	PASS
Methidathion	0.0273	0.20	0.20	ND	PASS
Methoxychlor	0.0204	0.05	0.05	ND	PASS
Mirex	0.0031	0.01	0.01	ND	PASS
Monocrotophos	0.0438	0.10	0.10	ND	PASS
Parathion-ethyl and Paraoxon- ethyl (Sum of)	0.1292	0.50	0.50	ND	PASS
Parathion-methyl and Paraoxon- methyl (Sum of)	0.0461	0.20	0.20	ND	PASS
Pendimethalin	0.0463	0.50	0.50	ND	PASS
Pentachloranisol	0.0023	0.01	0.01	ND	PASS
Permethrin and isomers (sum	0.0492	1.00	1.00	ND	PASS
of)					
Phosalone	0.0324	0.10	0.10	ND	PASS
Phosmet	0.0209	0.05	0.05	ND	PASS
Piperonyl butoxide	0.1260	3.00	3.00	ND	PASS
Pirimiphos-ethyl	0.0237	0.05	0.05	ND	PASS
Pirimiphos-methyl (Sum of pirimiphos-methyl and N-	0.1332	4.00	4.00	ND	PASS
desethyl-pirimiphos-methyl)					
Procymidone	0.0404	0.10	0.10	ND	PASS
Profenophos	0.0422	0.10	0.10	ND	PASS
Prothiophos	0.0166	0.05	0.05	ND	PASS
Pyrethrum (Sum of cinerin I, cinerin II, jasmolin I, jasmolin II, pyrethrin Land pyrethrin II)	0.1233	3.00	3.00	ND	PASS
Ouinalphos	0.0177	0.05	0.05	ND	PASS
Quintozene (Sum of quintozene	0.0804	1.00	1.00	ND	PASS
pentachloraniline and methyl penthachlorphenyl sulfide)	0.0004	1.00	1.00		17.55
S-421	0.0093	0.02	0.02	ND	PASS
Tau-fluvalinate	0.0181	0.05	0.05	ND	PASS

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Pesticides Analysis	LOD (ppm)	LOQ (ppm)	RL (ppm)	Result (ppm)	Status
Tecnazene	0.0183	0.05	0.05	ND	PASS
Tetradifon	0.1194	0.30	0.30	ND	PASS
Vinclozolin	0.1031	0.40	0.40	ND	PASS

Identification A (Macroscopic) DAB Monograph

Bracts and flowers of the overall inflorescence form the flattened branched raceme in which each branch has more than one flower.

This highly compressed panicle is approximately 1 to 5 cm in length and width.

The flower husks are green to light green, covered with dense yellow-white hairs, and stuck together with resin. The fower is about 5 to 10 mm long, consisting of a hooded, green to light green bloom.

Light brown to brown pistils and stigma branches, within an individual flower, having an overall length of up to 1 cm.

The crumbled inflorescence contains peduncle fragments, bracts, and panicle sections, as well as individual flowers and flower organs.

Bracts and all flower organs, except pistils, are more or less densely covered with excreted resinadhesive glandular hairs.

Identification B (Microscopic) DAB Monograph

Isolated Heads

Isolated Stalks

Bract fragments having short, broad cystolith hairs on the upper epidermis.

Vessels within the leaf fragments have helicoidally thickened cell walls; the leaf epidermises may have small glandular trichomes with a unicellular stalk and a unicellular to pluricellular head, or stalkless glandular hairs having cells arranged actinomorphically







Cannabinoid Analysis

LAB-MTD-020: Determination of 16 Cannabinoids in Cannabis Flowers, Extracts, Topicals, Tablets and Isolates by HPLC

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Terpene Analysis

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Pesticide Analysis

LAB-MTD-010: Determination of Health Canada Pesticide Residues and Toxins in Dried Cannabis Flower by LC-MS/MS and GC-MS/MS

LAB-MTD-040: Determination of EP 2.8.13 Pesticide Residues in Cannabis Extracts by GC-MS/MS LAB-MTD-041: Determination of EP 2.8.13/USP 561 Pesticide Residues in Cannabis Flower by GC-MS/MS and LC-MS/MS

LAB-MTD-046: Determination of Health Canada Pesticides and Toxins in Cannabis Extracts by LC-MS/MS

LAB-MTD-048: Determination of Health Canada Pesticide Residues and Toxins in Fresh Cannabis Flower by LC-MS/MS and GC-MS/MS

LAB-MTD-055: Determination of Israel Pesticide Residues in Dried/Fresh Cannabis by LC-MS/MS and GC-MS/MS

Mycotoxin Analysis

LAB-MTD-010: Determination of Health Canada Pesticide Residues and Toxins in Dried Cannabis Flower by LC-MS/MS and GC-MS/MS

LAB-MTD-029: Determination of Toxins in Tablet Samples by LC-MS/MS

LAB-MTD-037: Determination of Mycotoxins in Topical/Cream Samples by LC-MS/MS

LAB-MTD-046: Determination of Health Canada Pesticides and Toxins in Cannabis Extracts by LC-MS/MS

LAB-MTD-048: Determination of Health Canada Pesticide Residues and Toxins in Fresh Cannabis Flower by LC-MS/MS and GC-MS/MS

Flavonoid Analysis

LAB-MTD-045: Determination of Flavonoids in Cannabis Dried Flower, Fresh Flower, and Extracts by LC-MS/MS

Peroxide Value, p-Anisidine and Acidity (FFA) Analysis

LAB-MTD-049: Determination of Peroxide Value, p-Anisidine, and Acidity (FFA)

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<u>Microbial Analysis</u>

MIC-MTD-001: Microbial Analysis of Cannabis Flower and Oil by qPCR MIC-MTD-006: Determination of Viruses in Cannabis via qPCR and ELISA MIC-MTD-007: Microbial Analysis of Cannabis by Culture Techniques MIC-MTD-009: Cannabis Gender Determination by qPCR MIC-MTD-010: Identification A and Identification B of Cannabis by DAB Monograph MIC-MTD-011: Analysis of Shigella Species in Cannabis and Cannabis Infused Products MIC-MTD-008: Analysis of Listeria Monocytogenes in Cannabis and Cannabis Infused Products MIC-MTD-012: Microbial Analysis of Cannabis and Cannabis Infused Products

<u>Moisture Analysis</u>

LAB-MTD-017: Determination of Moisture Content in Cannabis Flower LAB-MTD-031: Water Activity Meter Setup and Operation LAB-MTD-053: Determination of Moisture Content by Loss on Drying Technique using Vacuum Oven

LAB-MTD-056: Determination of Moisture Content by Karl Fischer Titration

Sample Appearance and Foreign Matter

LAB-MTD-022: Sample Appearance and Detection of Foreign Matter Content in Cannabis Samples

Total Ash Analysis

LAB-MTD-043: Total Ash by Muffle Furnace in Cannabis Products

Residual Solvents Analysis

LAB-MTD-036: Determination of Residual Solvents in Cannabis Oil by GC-MS LAB-MTD-028: Determination of Residual Solvents in Tablet Samples by GC-MS LAB-MTD-034: Determination of Propane and Butane in Cannabis Oil by GC-MS LAB-MTD-038: Determination of Toluene in Cannabis Isolate by GC-MS LAB-MTD-054: Determination of Acetic Acid in Flavour, Cannabis Vape Mix Oil and Cannabis Infused Flower by GC-MS

<u>Heavy Metal Analysis</u>

LAB-MTD-027: Determination of Heavy Metals in Cannabis Samples (Cream/Topicals, Tablets and Edibles) by ICP-MS LAB-MTD-050: Multi-Element Analysis of Cannabis Dried Flower, Fresh Flower, Extracts, and Rolling Papers by ICP-MS LAB-MTD-058: Determination of Palladium (Pd) in Cannabis Dried Flower, Fresh Flower and Extracts by ICP-MS

<u>pH Analysis</u>

MIC-MTD-013: Determination of pH using pH Meter

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CERTIFICATE OF ANALYSIS

Client information COA information **Ostara Medical** COA number 240126_92635_PAR25912 5331 Avenue Pierre Dansereau COA Date 26-Jan-2024 Analysis Request ID Salaberry de Valleyfield, Canada, J6S 6A2 PAR25912 Sample information DTX-001 Sample Name Sample Receiving Date 22-Jan-2024 Sample ID DTX-001 Receiving Temperature 17.8°C Laboratory ID PAT76985 Analysis Date 26-Jan-2024 Method Ref. PAT-AM-024

Pesticides Dried Cannabis Results Information

Compounds Detected	Results (ppm, ppb)	LOQ	HC LOQ	Compliance
No Compounds Detected				

Compounds Not Detected	Results (ppm, ppb)	LOQ	HC LOQ	Compliance
Abamectin	ND	0.02	< 0.1	PASS
Acephate	ND	0.02	< 0.02	PASS
Acequinocyl	ND	0.02	< 0.03	PASS
Acetamiprid	ND	0.02	< 0.1	PASS
Aldicarb	ND	0.02	< 1	PASS
Allethrin	ND	0.02	< 0.2	PASS
Azadirachtin	ND	0.02	< 1	PASS
Azoxystrobin	ND	0.01	< 0.02	PASS
Benzovindiflupyr	ND	0.01	< 0.02	PASS
Bifenazate	ND	0.02	< 0.02	PASS
Bifenthrin	ND	0.02	< 1	PASS
Boscalid	ND	0.01	< 0.02	PASS
Buprofezin	ND	0.01	< 0.02	PASS
Carbaryl	ND	0.02	< 0.05	PASS
Carbofuran	ND	0.01	< 0.02	PASS
Chlorantraniliprole	ND	0.01	< 0.02	PASS
Chlorphenapyr	ND	0.05	< 0.05	PASS
Chlorpyrifos	ND	0.01	< 0.04	PASS
Clofentezine	ND	0.01	< 0.02	PASS
Clothianidin	ND	0.02	< 0.05	PASS
Coumaphos	ND	0.01	< 0.02	PASS
Cyantraniliprole	ND	0.01	< 0.02	PASS
Cyfluthrin	ND	0.1	< 0.2	PASS
Cypermethrin	ND	0.02	< 0.3	PASS
Cyprodinil	ND	0.02	< 0.25	PASS
Daminozide	ND	0.05	< 0.1	PASS
Deltamethrin	ND	0.02	< 0.5	PASS
Diazinon	ND	0.01	< 0.02	PASS
Dichlorvos	ND	0.02	< 0.1	PASS
Dimethoate	ND	0.01	< 0.02	PASS

PATHOGENIA

Compounds Not Detected	Results (ppm, ppb)	LOQ	HC LOQ	Compliance
Dimethomorph	ND	0.02	< 0.05	PASS
Dinotefuran	ND	0.02	< 0.1	PASS
Dodemorph	ND	0.02	< 0.05	PASS
Endosulfan sulfate	ND	0.02	< 0.05	PASS
Endosulfan-alpha	ND	0.1	< 0.2	PASS
Endosulfan-beta	ND	0.01	< 0.05	PASS
Ethoprophos	ND	0.01	< 0.02	PASS
Etofenprox	ND	0.01	< 0.05	PASS
Etoxazole	ND	0.01	< 0.02	PASS
Etridiazole	ND	0.01	< 0.03	PASS
Fenoxycarb	ND	0.01	< 0.02	PASS
Fenpyroximate	ND	0.02	< 0.02	PASS
Fensulfothion	ND	0.01	< 0.02	PASS
Fenthion	ND	0.01	< 0.02	PASS
Fenvalerate	ND	0.05	< 0.1	PASS
Fipronil	ND	0.01	< 0.06	PASS
Flonicamid	ND	0.02	< 0.05	PASS
Fludioxonil	ND	0.01	< 0.02	PASS
Fluopyram	ND	0.01	< 0.02	PASS
Hexythiazox	ND	0.01	< 0.01	PASS
Imazalil	ND	0.01	< 0.05	PASS
Imidacloprid	ND	0.01	< 0.02	PASS
Iprodione	ND	0.5	< 1	PASS
Kinoprene	ND	0.05	< 0.5	PASS
Kresoxim-methyl	ND	0.01	< 0.02	PASS
Malathion	ND	0.01	< 0.02	PASS
Metalaxyl	ND	0.01	< 0.02	PASS
Methiocarb	ND	0.01	< 0.02	PASS
Methomyl	ND	0.02	< 0.05	PASS
Methoprene	ND	0.5	< 2	PASS
Mevinphos	ND	0.02	< 0.05	PASS
MGK-264	ND	0.02	< 0.05	PASS
Myclobutanil	ND	0.01	< 0.02	PASS
Naled	ND	0.02	< 0.1	PASS
Novaluron	ND	0.02	< 0.05	PASS
Oxamyl	ND	0.02	< 3	PASS
Paclobutrazol	ND	0.01	< 0.02	PASS
Parathion-methyl	ND	0.02	< 0.05	PASS
Permethrin	ND	0.1	< 0.5	PASS
Phenothrin	ND	0.02	< 0.05	PASS
Phosmet	ND	0.01	< 0.02	PASS
Piperonyl butoxide	ND	0.02	< 0.2	PASS
Pirimicarb	ND	0.01	< 0.02	PASS
Prallethrin	ND	0.02	< 0.05	PASS
Propiconazole	ND	0.01	< 0.1	PASS
Propoxur	ND	0.01	< 0.02	PASS
Pyraclostrobin	ND	0.01	< 0.02	PASS
Pyrethrins	ND	0.025	< 0.05	PASS
Pyridaben	ND	0.02	< 0.05	PASS
Quintozene	ND	0.01	< 0.02	PASS
Resmethrin	ND	0.02	< 0.1	PASS

Compounds Not Detected	Results (ppm, ppb)	LOQ	HC LOQ	Compliance
Spinetoram	ND	0.01	< 0.02	PASS
Spinosad	ND	0.01	< 0.1	PASS
Spirodiclofen	ND	0.02	< 0.25	PASS
Spiromesifen	ND	0.02	< 3	PASS
Spirotetramat	ND	0.02	< 0.02	PASS
Spiroxamine	ND	0.01	< 0.1	PASS
Tebuconazole	ND	0.01	< 0.05	PASS
Tebufenozide	ND	0.01	< 0.02	PASS
Teflubenzuron	ND	0.02	< 0.05	PASS
Tetrachlorvinphos	ND	0.01	< 0.02	PASS
Tetramethrin	ND	0.02	< 0.1	PASS
Thiacloprid	ND	0.01	< 0.02	PASS
Thiamethoxam	ND	0.01	< 0.02	PASS
Thiophanate-methyl	ND	0.02	< 0.05	PASS
Trifloxystrobin	ND	0.01	< 0.02	PASS

Authorized by: Laboratory Manager

Signature:

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Details of testing

- 1. ppm (w/w): parts per million by weight, MRL: Maximum residue limits, LOQ: Limit of Quantification
- 2. The compounds are ND (not detected) at or above the LOQ
- 3. Health Canada and/or United States MRL are taken from Health Canada & Global MRL Database (where applicable) on the date of COA preparation
- 4. Results only apply to the items tested and to the sample(s) as received.
- 5. This report may not be distributed or reproduced except in full



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